CONTENTS

List of Authors VIII
Preface IX
Conclusions of the International Workshop on the Gulf of Suez and Red Sea Rifting, Hurgada, Egypt, 1986 X

Surficial structures of the northern Red Sea axial valley from 23°N to 28°N: time and space evolution of neo-oceanic structures
Guennoc, P., Pautot, G. and Coutelle, A. (Brest, France) 1
Evidence from the northern Red Sea on the transition from continental to oceanic rifting
Cochran, J.R. and Martinez, F. (Palisades, N.Y., U.S.A.) 25
Seismic study of the crust of the northern Red Sea and Gulf of Suez
Gaulier, J.M., Le Pichon, X., Lyberis, N. (Paris, France), Avedik, F., Geli, L. (Brest, France), Moretti, I. (Rueil-Malmaison, France), Deschamps, A. (Paris, France) and Salah Hafez (Cairo, Egypt) 55
Results from three refraction profiles in the northern Red Sea (above 25°N) recorded with an Ocean Bottom Vertical Seismic Array
Avedik, F., Geli, L. (Brest, France), Gaulier, J.M. (Paris, France) and Le Formal, J.P. (Brest, France) 89
Crustal and uppermost mantle structure beneath the Afro-Arabian rift system
Mechie, J. and Prodehl, C. (Karlsruhe, F.R.G.) 103
Geology of the Safaga Concession, northern Red Sea, Egypt
Miller, P.M. (Houston, Tex., U.S.A.) and Barakat, H. (Cairo, Egypt) 123
Sedimentary and structural evolution of the northwest Arabian Red Sea margin
Bayer, H.-J., Hötzl, H., Jado, A.R., Roscher, B. and Voggenreiter, W. (Karlsruhe, F.R.G.) 137
Upper lithosphere deformations in the Jordan–Dead Sea transform regime
Mechie, J. (Karlsruhe, F.R.G.) and El-Isa, Z.H. (Amman, Jordan) 153
Tectonic and sedimentary evolution of the Gulf of Suez and the northwestern Red Sea
Montenat, C., Ott d'Estevou, P. (Paris, France), Purser, B., Burollet, P.-F. (Orsay, France), Jarrige, J.-J. (Paris, France), Orszag-Sperber, F. (Orsay, France), Philobbos, E. (Assiut, Egypt), Plaziat, J.-C. (Orsay, France), Prat, P., Richert, J.-P. (Paris, France), Roussel, N. (Orsay, France) and Thiriet, J.-P. (Paris, France) 161
Tectonic evolution of the northwestern Red Sea margin as related to basement structure
Greiling, R.O. (Cardiff, Great Britain), El Ramly, M.F. (Cairo, Egypt), El Akhal, H. (Mainz, F.R.G.) and Stern, R.J. (Richardson, Tex., U.S.A.) 179
The sedimentary evolution of the Red Sea rift: a comparison of the northwest (Egyptian) and northeast (Saudi Arabian) margins
Purser, B.H. (Orsay, France) and Hötzl, H. (Karlsruhe, F.R.G.) 193
Tectonic evolution of the Gulf of Suez and the Gulf of Aqaba
Lyberis, N. (Paris, France) 209
Longitudinal evolution of the Suez rift structure (Egypt)
Colletta, B. (Rueil-Malmaison, France), Le Quellec, P. (Paris, France), Letouzey, J. and Moretti, I. (Paris) 221
Neogene tectonic and stratigraphic events in the Gulf of Suez rift area, Egypt
Evans, A.L. (Stanford, Calif., U.S.A.) 235
Subsidence in the Gulf of Suez: implications for rifting and plate kinematics
Steckler, M.S. (Palisades, N.Y., U.S.A.), Berthelot, F., Lyberis, N. and Le Pichon, X. (Paris, France) 249
The rotation of Arabia and the Levant fault system
Le Pichon, X. and Gaulier, J.-M. (Paris, France) 271
Diversity of Neogene seismites of the northwest Red Sea (Egypt): a characteristic sedimentary expression of rifting (Abstract)
Plaziat, J.-C., Purser, B. (Orsay, France) and Philobbos, E. (Assiut, Egypt) 295
Possible axial extension in the Gulf of Suez rift (work hypothesis)
Argenton, A. and Maccagni, A. (Cairo, Egypt) 297
Clay modeling of rift asymmetry and associated structures
Serra, S. (Tulsa, Okla., U.S.A.) and Nelson, R.A. (Houston, Tex., U.S.A.) 307
Theoretical model of block rotation along circular faults
Moretti, I., Colletta, B. and Vially, R. (Rueil-Malmaison, France) 313